

New Hampshire Department of Transportation

Qualified Products List

Issue 2005-1 May 5, 2005

Products appearing on this list have been prequalified by the Department for general use. Unless noted otherwise, these products may be used on Highway and Bridge projects, under the Section/Item Number indicated, without further testing. A Certificate of Compliance is required for these materials. A product that falls into one of these categories and is not listed shall not be used, unless qualified through written request to the NHDOT, Bureau of Materials & Research. Such request shall be made with sufficient lead-time to allow for any necessary testing and/or research.

Inclusion of a product on this list does not imply that the product meets any or all applicable State or Federal regulations related to safety or environmental issues in effect at the time. The manufacturer's Material Safety Data Sheet (MSDS) should be referred to before use of any product appearing on this list.

NOTICE: Report any failure, incompatibility or other problem associated with any product on this list to:

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SECTION 403 - HOT BITUMINOUS PAVEMENT

A. Not currently used

B. ITEM 403.1109 - MODIFIER FOR HIGH STRENGTH HOT BITUMINOUS PAVEMENT

(Use only when specified)

Manufacturer:

American Gilsonite Co. Gilsonite HMA Modifier (8% by weight of asphalt cement)

SECTION 413 - HOT-POURED CRACK SEALANT

A. Item 413.1 - HOT POURED CRACK SEALANT (ASTM D-3405)

Note: Acceptance of actual shipments will be based on test results of samples taken at the construction site.

Manufacturer: **Product:** American Permaquik Permaquik 6195 Road Saver 201 Crafco Inc. Product #9005 Koch Materials Co. The Pavement Depot/Dalton Enterprises, Crack-Rite HP3405

W.R. Meadows Hi-Spec

B. Item 413.2 - HOT POURED CRACK SEALANT (LOW MODULUS)

Note: Acceptance of actual shipments will be based on test results of samples taken at the construction site.

Manufacturer: **Product:**

Bemac Products (McAsphalt Industries) BERAM 195 Low Modulus

Road Saver 231 Crafco, Inc.

Deery American Corp. DAC Hot Poured Crack Sealant DAC 101

Koch Materials Co Product #9030

SECTION 510 - BEARING PILES

A. ITEM 510.65 - DRIVING POINTS FOR STEEL BEARING PILES

Conforming to AASHTO M 103 (ASTM A27), Grade 65-35 or ASTM A148, Grade 90-60

Manufacturer: **Product:**

Hard-Bite HP 77600-B Assoc. Pile & Fitting Corp. Assoc. Pile & Fitting Corp. Hard-Bite HP 77750-B Hard-Bite HP 7780-B * Assoc. Pile & Fitting Corp. Assoc. Pile & Fitting Corp. Pruyn Point HP 75750-B Tuftip Tufloy H-776 * Dougherty Foundation Prod., Inc. Dougherty Foundation Prod., Inc. Tuftip Tufloy H-777 * Model HPH ** Mid-America Foundation Supply Piling Accessories, Inc. Super-Bite PAR-T Series

Versabite Piling Accessories Versa-Bite VB 300-P Series Versa-Steel Inc. Versa Steel VS-300N Series

* Available only in Grade 90-60

** Available only in Grade 65-35

SECTION 520 - PORTLAND CEMENT CONCRETE

A. FAST SET NON-SHRINK PATCHING MORTAR (For Bridge Deck Repairs)

Manufacturer: Product:

ThoRoc 10-60 Rapid Mortar Chemrex Conspec Marketing & Manufacturing Pave Patch 3000

Five Star Products Structural Concrete Structural Concrete V/O Patch ** Five Star Products

Silpro Masonry Systems Fastcrete *

* High Early Strength (1000 psi minimum at 1 hour - lab)

^{**} Recommended also for vertical/overhead patching

B. ACCELERATING ADMIXTURES

Contact Materials & Research (271-3151) for products when required.

C. AIR ENTRAINING ADMIXTURES

Manufacturer:Product:Master Builders, Inc.MB AE 90Master Builders, Inc.Micro-AirW.R. Grace & Co.Daravair 1000W.R. Grace & Co.Daravair AT60W.R. Grace & Co.Darex II

D. WATER REDUCING ADMIXTURES

Manufacturer: Product:

Master Builders, Inc.

Master Builders, Inc.

Master Builders, Inc.

Pozzolith 200N

Master Builders, Inc.

Pozzolith 220N

W.R. Grace & Co.

W.R. Grace & Co.

W.R. Grace & Co.

W.R. Grace & Co.

Daracem 55 (Midrange)

W.R. Grace & Co. Daracem 55 (Midrange)
W.R. Grace & Co. Daracem 65 (Midrange)

W.R. Grace & Co. MIRA 70 W.R. Grace & Co. WRDA/HYCOL

E. RETARDING ADMIXTURES

Manufacturer:Product:Master Builders, Inc.Pozzolith 100XRMaster Builders, Inc.Pozzolith 122RW.R. Grace & Co.Daratard 17

F. SUPERPLASTICIZERS (Type G)

Manufacturer:Product:Master Builders, Inc.Rheobuild 716 IW.R. Grace & Co.Daracem 100

G. CORROSION INHIBITORS

Manufacturer:Product:Master Builders, Inc.Rheocrete CNIW.R. Grace & Co.DCIW.R. Grace & Co.DCI-S

H. CURING COMPOUNDS

See specifications for limitations regarding the use of curing compounds.

Manufacturer: Product:

Dayton Superior

L&M Construction Chemicals Inc.

Poly Sat Inc.

D.S.S.C.C. White Resin Cure
Cure R (w/fugitive dye)
Harris Super Konkure White

I. BONDING AGENTS (Fresh Concrete to Hardened Concrete)

Note: Bonding agents to be used only when specified. Application to be per manufacturer's recommendation.

Manufacturer: Product:

Master Builders, Inc. Concresive Liquid LPL

J. BONDING AGENTS (Fresh Concrete to Steel)

Note: Bonding agents to be used only when specified. Application to be per manufacturer's recommendation.

Manufacturer: Product: Sika Corp Armatec 110

K. PLASTIC BEARING STRIP (For Expansion End)

Manufacturer: Product:

Korolath of New England Korolath PE (Contact Cement - Sikadur 31 Hi-Mod Gel)

L. CLOSED CELL EXPANSION MATERIAL

Use only when specified.

Manufacturer: Product:

E-poxy Engineered Materials, LLC Evazote 380 E.S.P. (w/ Eva-Pox Bonder No. 1)

M. CLOSED CELL FILLER MATERIAL

Manufacturer:Product:Dow Corning Corp.STYROFOAMOwens CorningFoamular 250

N. POLYMER-MODIFIED, 2-COMPONENT, FAST SETTING CONCRETE PATCH

Use only when specified

Manufacturer: Product:

Sonneborn Building Prods./ChemRex Sonopatch 200 with Sonocrete Acrylic Ad.

SECTION 526 - CONCRETE CRACK SEALERS

A. ITEM 526.2 - EPOXY FOR NON-MOVING CRACKS

Manufacturer:Product:Dayton SuperiorSure-Inject J-56Dural International (TammsInd.)DuralcreteE-Poxy Industries, Inc.Injection Resin #4

Hilti Construction Chemicals Hilti CI 060 EP Crack Injection System

Master Builders, Inc.

Master Builders, Inc.

Concresive 1380

Master Builders, Inc.

Concresive 3009

Sika Corp (Cool Weather)

Sikadur 52

Sika Corp. (Warm Weather)

Sikadur 35

Sinmast

Sinmast Product #2

B. ITEM 526.3 - HIGH MOLECULAR WEIGHT METHACRYLATE CRACK SEALER

Manufacturer:Product:Sika CorpSikaPronto 19

SECTION 529 - PRESTRESSED CONCRETE BRIDGE DECK

A. ITEM 529.1 - HIGH STRENGTH, IMPACT RESISTANT, NON-SHRINK GROUT

Manufacturer: Product

Conspec Marketing & Manufacturing Co. Conspec 100 Non-Shrink Non-Metallic Grout

Dayton Superior Suregrip High Performance Grout

Sonneborn Building Products/ChemRex Sonogrout 14K Hy Flow

SECTION 530 - WATERPROOFING CONCRETE SURFACES

A. ITEM 530.3 - CEMENT BASE WITH ACRYLIC LATEX (2 Coats)

Manufacturer: Product:

Degussa (formerly Harris Specialty Thoroseal (Pearl Gray) w/Acryl 60
Tamms Industries Tamoseal (Oyster Gray) w/AKKRO-7T

B. ITEM 530.3 - CEMENT BASE, POLYMER MODIFIED (2 Coats)

Manufacturer: Product:

Degussa (formerly Harris Specialty
Flexcrete Limited
Tamms Industries

ThoRoc Cement Coating (Gray)
Silcabond FCR 851 (Gray)
Duraltop Coating (Gray)

SECTION 532 - ANTI-GRAFFITI COATINGS

A. ITEM 532.1 - SEMI-PERMANENT ANTI-GRAFFITI COATINGS (CLEAR)

Manufacturer: Product:

Professional Products of Kansas, Inc. PROFESSIONAL Water Sealant Anti-Graffiti *, GRAFFITI FREE cleaner

* Coat #1 - Super-strength (15% solids), Coat #2 - Extra-strength (8% solids) or Super-strength, in accordance with manufacturer's recommendations

SECTION 534 - WATER REPELLENT

A. ITEM 534.1 - LINSEED OIL (Anti-spalling Compound)

Manufacturer: Product:

A.H. Harris and Sons, Inc. Harris Super Antispall Voc Dayton Superior Day-Chem Anti-Spall (J-33)

New England Paint Mfg. Co. Locktite
Tamms Industries Tri-Dar 66/1A

B. ITEM 534.3 - SILANE/SILOXANE

These products can be used when ambient and surface temperatures are 40 degrees and above.

Manufacturer:Product:Advanced Chemical Technologies, Inc.Sil-Act ATS 42ProSoCo, Inc.SL 100ProSoCo, Inc.SLX100Sivento Inc.Dynasylan BH-NVexcon Chemicals, Inc.Powerseal 40

C. ITEM 534.3 - SILANE/SILOXANE - COLD WEATHER

These products can be used when ambient and surface temperatures are 20 degrees and above.

Manufacturer:Product:Master Builders, Inc.Masterseal SL40

Sivento Inc. Chem-Trete BSM 40 VOC

SECTION 535 - EPOXY WATERPROOFING

A. ITEM 535.1 - BITUMEN EPOXY WATERPROOFING

Manufacturer: Product:

Anti-Hydro Company

Kop-Coast Div./Carboline

Tamms Industries

A-H Coal Tar Epoxy 210

Bitumastic 300-M

Dural 306

SECTION 536 - EPOXY COATING FOR CONCRETE

A. ITEM 536.11 - EPOXY COATING FOR CONCRETE (Mortar Coat/Seal Coat)

Manufacturer: Product:

Dural International (TAMMS Ind.)Flexocrete Gel/Dural 304Master Builders, Inc.Concresive 1180/Concresive 1490Master Builders, Inc.Concresive 3013/Concresive 3025Sika CorporationSikadur 23 LM Gel/Sikagard 62

B. ITEM 536.3 - HIGH BUILD, HIGH GLOSS, WHITE EPOXY COATING FOR CONCRETE

Manufacturer:Product:Dural International (Tamms)DuralkoteKaufman Products Inc.Sure-Poxy Hi-BildMaster Builders, Inc.Concresive 1170Master Builders, Inc.Concresive 3026Sika CorporationSikagard 62

SECTION 537 - CONCRETE SEALER

A. HIGH SOLIDS ACRYLIC SEALER (Two Coats)

Manufacturer:Product:A.H. Harris and Sons, Inc.Certi-vex AC1315Silpro CorporationCrete SealTammsLuster Seal 300

B. FERROUS STAIN REMOVER

Manufacturer: Product:

ProSoCo Sure-Klean Ferrous Remover

SECTION 538 - BARRIER MEMBRANE

A. ITEMS 538.1 AND 538.2 - WARM WEATHER APPLICATION

(Temp. 40 Degs. F and rising)

Manufacturer: Product:

Royston Laboratories 10 AN Easy Pave, 713A Primer, 104CM Mastic

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

B. ITEM 538.2 - COOL WEATHER APPLICATION

(Temp. 25 Degs F and rising)

Manufacturer: Product:

Protecto Wrap Co. Jiffy Seal 140/60 Cold Weather, VOC 100 Primer, 160H Mastic

Royston Laboratories Inc. 104-AHT, 740 Primer, 104CM Mastic

W.R. Meadows Inc. Seal Tight Mel-Rol, MEL-Prime VOC Solvent Base Primer, Elastomeric Mastic

W.R.Grace & Co Lo Temp Membrane, Bituthene Primer B2, Bituthene Mastic

C. PROTECTION BOARD FOR BARRIER MEMBRANE

(Use on membraned surfaces to be backfilled against)

Manufacturer: Product:

1.0" Closed-Cell Extruded Polystyrene Board 1/2" 100% Bituminous Impregnated Fiber Board

W.R. Grace & Co. Bituthene Asphaltic Hardboard

W.R. Meadows Sealtight Melnar W.R. Meadows Sealtight PC-2

D. ITEM 538.3 - BARRIER MEMBRANE, LIQUID SPRAY

Manufacturer: Product:

Stirling Lloyd Products Eliminator, PAR 1 Primer, SA 1030 Tack Coat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

E. ITEM 538.4 - BARRIER MEMBRANE, HOT RUBBERIZED ASPHALT

(For use along curb line with Items 538.5 and 538.6)

Manufacturer: Product:

Bemac Products (McAsphalt)

Henry Company

790-11 MTO Grade

Hydrotech Membrane Corp.

Permaquik Corp.

Permaquik Corp.

Ultraseal Construction Products

Watson Bowman Acme Corporation

Bemalastic 1213 B.D.M.

Hydrotech BDM

PQ 6100 BM

Ultraseal 3750

Wabo Expandex

F. ITEM 538.5 - BARRIER MEMBRANE, WELDED BY TORCH

Manufacturer: Product:

IKO Industries Ltd Armour Bridge/Pont 4.5 mm *

Soprema Roofing & Waterproofing Inc. Sopralene Flam Antirock Membrane, Antirock Primer & Tackcoat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

G. ITEM 538.6 - BARRIER MEMBRANE, WELDED BY TORCH - MACHINE METHOD

Manufacturer: Product

Soprema Roofing & Waterproofing Inc.

Sopralene Flam Antirock Membrane, Antirock Primer & Tackcoat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

H. URETHANE LIQUID MEMBRANE

(Use only when specified)

Manufacturer:Product:Gates ManufacturingGacoflex LM60Royston Laboratories163-99AW.R. Grace & Co.Bituthene LM-3000

I. MOISTURE METER (For concrete bridge decks)

Manufacturer: Product:

Sovereign Chemical Industries, Ltd.

Dual Probe Moisture Master
Tramex, Ltd

Tramex Concrete Encounter

J. FIXED-ALIGNMENT ADHESION TESTER TYPE I

Manufacturer: Product:

Proceq SA Proceq Dyna Z6 Pull Off Tester with digital manometer *

K. FIXED-ALIGNMENT ADHESION TESTER TYPE II

Manufacturer: Product:

Elcometer Instruments, Ltd Elcometer 106 Adhesion Tester, Scale 1

^{*} Use either Elastocol 500 Primer or Roofcraft Modified Asphalt Primer for both the primer and tack coat.

^{*} For testing of membrane and substrate as specified. Requires 50 mm test discs.

^{*} For testing of substrate as specified. Requires 20 mm test discs.

SECTION 541 - WATERSTOPS (PVC)

A. ITEM 541.1 - NH TYPE 1

Manufacturer: Product:

Greenstreak 781 (Ribbed), 721 (Ribbed Split), 741 (Dumbbell)

Paul Murphy Plastics FR-4316 (Ribbed)

Tamms 300 (Ribbed Split), DB-8 (Dumbbell)

Vinylex RB4-316 (Ribbed), RSB4-316 (Ribbed Split), D4-316 (Dumbbell)

Vulcan 8036 (Ribbed Split), 8040 (Dumbbell)

B. ITEM 541.2 - NH TYPE 2

Manufacturer: Product:

Greenstreak 703 (Ribbed), 723 (Ribbed Split)

Paul Murphy Plastics CR-6316 (Ribbed), SR-6316 (Ribbed Split)

Tamms 4B (Ribbed), 400 (Ribbed Split)

Vinylex RB6-316 (Ribbed), RSB6-316 (Ribbed Split)

Vulcan 8021 (Ribbed), 8032 (Ribbed Split)

C. ITEM 541.3 - NH TYPE 3

Manufacturer: Product:

Greenstreak 780 (Ribbed), 757 (Dumbbell)

Paul Murphy Plastics CR-6380 (Ribbed), SR-6380 (Ribbed Split)

Tamms 4C (Ribbed), 400C (Ribbed Split)

Vinylex RB6-14 (Ribbed), RSB6-14 (Ribbed Split), DBG-14 (Dumbbell)

Vulcan 8068 (Ribbed), 8028 (Dumbbell)

D. ITEM 541.4 - NH TYPE 4

Manufacturer: Product:

Greenstreak 696 (Ribbed), 753 (Ribbed Split)
Tamms 7F (Ribbed), DB-6 (Dumbbell)

Vinylex RLB9-38 (Ribbed), DB9-38 (Dumbbell), DSB9-38 (Dumbbell)

Vulcan 8077 (Ribbed), 8031 (Dumbbell)

E. ITEM 541.5 - NH TYPE 5

Manufacturer:Product:Greenstreak769 (Ribbed)VinylexL85-14 (Ribbed)

SECTION 548 - ELASTOMERIC BEARING PADS

A. EPOXY ADHESIVE FOR BEARING PADS

Manufacturer: Product:

 Delta Plastics Co.
 Delta AS 23-18 A&B Gel Type Epoxy Adhesive

 Sika Corp.
 Sikadur 32, Hi-Mod LPL Structural Epoxy Adhesive

SECTION 550 - STRUCTURAL STEEL

A. FAST SETTING GROUTS FOR ANCHOR BOLTS (550.3.15.4)

Manufacturer: Product:

Dayton Superior Sure Grip Utility Grout

Minwax Construction Products Division Super Por Rok

B. Not currently used.

C. PREFORMED FABRIC BEARING PADS (550.2.6)

Manufacturer: Product:

Beemer Precision Co. Beeco Preformed Fabric, Type 1

Boston Industrial Viblon
Buckeye Rubber Products Buckfab

Con-Serv PF Preformed Fabric Pad

Elkhart Rubber Shockpad

Fabreeka Products Co. Fabreeka Bearing Pad

JVI Inc. Carpralon Voss Engineering Sorbtex

D. ITEM 550.29 - BRIDGE SHOES (ISOLATION BEARINGS)

Manufacturer: Product:

Dynamic Isolation Systems, Inc.

Earthquake Protection Systems, Inc.

R.J. Watson, Inc.

Seismic Energy Products, L.P.

Skellerup Oiles Seismic Protection, LLC

Elastomeric Isolator

Elastomeric Isolator

Elastomeric Isolator

SECTION 552 - REHABILITATION OF EXPANSION BRIDGE SHOES

A. ITEM 552.2 - LUBRICATION (Lithium Base NGLI-2 Grade)

Manufacturer:Product:ExxonBeacon P 290TexacoMarfax (All Purpose)

SECTION 559 - JOINT SEAL

A. ITEM 559.4 - ELASTOMERIC PLUG TYPE EXPANSION JOINT

Manufacturer: Product:

Dynamic Surface Applications, Ltd BJS with Road Repair Systems Material: BJ Super

Dynamic Surface Applications, Ltd. Thorma-Joint with Road Repair Systems Material: BJ Super Pavetech International, Inc. Matrix 502 with Matrix 502 Polymer-Modified Bridge Joint Binder

Watson Bowman Acme/Harris Specialty Expandex Joint with Wabo Expandex Material

Wyoming Equipment Sales, Inc. A.P.J. Asphalt Plug Expansion Joint System with APB binder

B. ITEM 559.5 - SILICONE JOINT SEALANT

The use of primer is required with these products unless waived by the Engineer.

Manufacturer: Product:

Dow Corning Corp.

Dow Corning 888 (Non-sag, for vertical and horizontal joints)
Dow Corning Corp.

Dow Corning 890-SL (Self-leveling, for horizontal joints only)

SECTION 560 - PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

A. PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

Manufacturer:

Product:
Delastic "CV" Series D.S. Brown "M" and "X" Series Elastomer RUBATEX "RPB" Series Structural Accessories "SA" Series Watson, Bowman & Acme "WJ" Series

SECTION 561 - PREFABRICATED EXPANSION JOINT

A. PREFAB. EXPANSION JOINT "TYPE A" (STRIP SEAL)

Manufacturer:

D.S. Brown "A2, L2, H & NY" Series (SSA2, SSE2, SSCM2, SSPA steel shapes only)

ESCO Seal E, A, M, C steel shapes only

Structural Accessories "Onflex" Series "SE" Series Watson Bowman Acme

B. PREFAB. EXPANSION JOINT "TYPE B" (BOX SEAL)

Manufacturer: **Product:** D.S. Brown "MA" Series "D" Series Watson, Bowman & Acme

C. PREFORMED FABRIC TROUGH (Used with prefabricated finger joints)

Manufacturer: **Product:**

Flexible Drain Trough Fabreeka Products Co.

3-ply PNT 50 Saniwhite 3/64 x FS Thermoid of H.B.D. Industries, Inc Voss Engineering 15 oz. Flexible Drain Trough

SECTION 562 - ELASTOMERIC SEALANT

A. ELASTOMERIC SEALANT (Vertical Joints)

The use of primer is required with these products unless waived by the Engineer.

Manufacturer: Sika Corporation Sikaflex 1A Sika Corporation Sikaflex-15LM Sonneborn Building Products Sonolastic NP-1

B. ELASTOMERIC SEALANT (Horizontal Joints)

Product: Manufacturer: Sonneborn Building Products Sonolastic SL-1

SECTION 563 - BRIDGE RAILING

A. ANCHOR BOLTS W/RESIN ADHESIVE

These products are only qualified when installed with a minimum embedment depth of 9 times the nominal anchor diameter and for anchor diameters and ultimate capacities of: 3/4"(28.4 kips), 7/8"(39.25 kips), and 1"(51.5 kips).

Manufacturer shall certify that the supplied system (size, embedment, capacity) meets the design requirements specified.

Manufacturer:Product:HiltiHSE 2421Hilti, Inc.HIT HY-150Hilti, Inc.HIT-RE 500

Hilti, Inc. HVA Anchor Bolt w/ HVU Adhesive Cartridge

KelKen-Gold, Inc. Kelken Keligrout System
Simpson Strong-Tie SET High Strength Epoxy

U.S. Anchor Corp. HS-200 Unitex Pro-Poxy 400

Note: Random proof test(s) of installed systems will be ordered by the Engineer.

B. AASHTO M 251 PADS

Manufacturer: Product:

WARCO 50-E-52 (Neoprene) Pad

C. RANDOM-ORIENTED FIBER PADS

Manufacturer: Product:

Fabreeka International SA-47 Bearing Pads
JVI Comcord Pads
Voss Engineering Inc. VOSSCO

SECTION 566 - ELASTOMERIC JOINT SEAL

A. ELASTOMERIC JOINT SEAL

Manufacturer: Product:

See qualified list for Section 560.

SECTION 581 - BRICK AND BLOCK MASONRY

A. ASPHALT-PRIMER (SOLVENT TYPE)

Manufacturer:Product:Sonneborn ProductsHydrocide 648Tamms IndustriesDehydratine #4

Pay Item and Unit: 593.A B C

A= Application	B = Strength Class	C = Structure
1 = Subsurface Drainage	0 = Class 0	0 = Contractor Option
2 = Separation	1 = Class 1	1 = Nonwoven (Default - Applic. 1 & 4)
3 = Stabilization	2 = Class 2	2 = Monofilament, Woven
4 = Permanent Erosion Control	3 = Class 3	3 = Slit Filament, Woven

Manufactures 9 Deciliant	QUALIFIED FOR		
Manufacturer & Product	А	В	С
Amoco Fabrics & Fiber Co.	Application	Strength Class	Structure
Propex 4552	1,2,3,4	2,3	1
Propex 4553	1,2,3,4	1,2,3	1
Propex 2004	2,3	2,3	3
Propex 4516	1,2,3,4	0,1,2,3	1
	А	B	С
Carthage Mills	Application	Strength Class	Structure
FX-60HS	1,2,3,4	2,3	1
Carthage 6%	2,3	2,3	2
	А	В	С
LINQ Industrial Fabrics, Inc.	Application	Strength Class	Structure
160EX	1,2,3,4	2,3	1
180EX	1,2,3,4	2,3	1
	А	В	С
SI Geosolutions, Inc.	Application	Strength Class	Structure
315ST	2,3	2,3	3
104F	2,3	3	2
401	1,2,3	3	1
501	1,2,3	3	1
601	1,2,3,4	2,3	1
701	1,2,3,4	2,3	1
801	1,2,3,4	2.3	1
200ST	2,3	3	3
	А	В	С
Skaps Industries	Application	Strength Class	Structure
GT142	1,2,3	3	1
GT160	1,2,3,4	2,3	1
GT170	1,2,3,4	2,3	1
	А	В	С
WEBTEC, Inc.	Application	Strength Class	Structure
Terratex HD	2,3	1,2,3	3
Terratex GS-250	2,3	2,3	3
Terratex N07	1,2,3,4	2,3	1
Terratex N08	1,2,3,4	1,2,3	1

SECTION 603 - CULVERTS AND STORM DRAINS

A. POLYETHYLENE (HDPE)

Approved Manufacturers*:

Manufacturer: Product:

Advanced Drainage Systems, Inc.

Hancor, Inc.

Pipe in sizes up to 36 inch diameter

B. POLYVINYL CHLORIDE (PVC)

Approved Manufacturers:

Manufacturer: Product:

Contech Construction Products Pipe in sizes up to 36-inch diameter

SECTION 604 - CATCH BASINS, DROP INLETS, AND MANHOLES

A. FIBER REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES

Note: Use of fiber reinforcement is only allowed for drainage structures with a maximum diameter of 4'.

Manufacturer: Product:

W.R. Grace Strux 90/40 Fibers

SECTION 605 - UNDERDRAINS

A. POLYETHYLENE (HDPE)

Approved Manufacturers*:

Manufacturer:Product:Advanced Drainage Systems, Inc.Per specificationsHancor, Inc.Per specificationsLane Enterprises, Inc.Per specificationsBaughman Tile Co.Per specificationsSoleno, Inc.Per specifications

B. POLYVINYL CHLORIDE (PVC)

Approved Manufacturers:

Manufacturer: Product:

Contech Construction Products Per Specifications

^{*}Pipe shall only be supplied from plants currently qualified by the Eastern States Consortium http://www.nh.gov/dot/espc/qm.htm.

^{*}Pipe shall only be supplied from plants currently qualified by the Eastern States Consortium http://www.nh.gov/dot/espc/qm.htm .

SECTION 606 - GUARDRAIL

A. COMPOSITE MATERIAL BLOCKS

(Use only when specified)

Manufacturer: Product:

Contact Materials & Research (271-3151) for products when required.

SECTION 609 - CURBS

A. CEMENT MORTAR FOR BRIDGE CURB BEDDING

Manufacturer: Product:

AH Harris Harris Construction Grout

Conspec Marketing & Manufacturing Co. Enduro #50

Dayton Superior 1107 Advantage Grout

Dayton Superior Sure-Grip High Performance Grout

Five Star Products Structural Concrete

Master Builders, Inc. Set Grout

B. POLYESTER FIBERS FOR BITUMINOUS CURB

Manufacturer: Product:

GFC Materials Co. Petroflex Type 450 Kapejo Inc. Petroflex Type Boni Fibers Type B

SECTION 616 - TRAFFIC SIGNALS

A. SAW CUT LOOP SEALANT

Manufacturer:Product:3MLoop Sealant

Chemque, Inc. Q-Seal 290S Detector Loop Sealant Chemque, Inc. Q-Seal 296-06 Detector Loop Sealant

Degussa (formerly Harris Specialty Gold Label All Season Loop Sealant (formerly Gold Label Loop Sealant)

Dynatron/Bondo Corp.

RAI Products

RAI Products

RAI Products

Permanent Sealer 974

RAI Products

Pro-Seal 6006

Statler Paints

Stat-A-Flex Poly Seal

SECTION 619 - MAINTENANCE OF TRAFFIC

A. TEMPORARY RAISED PAVEMENT MARKERS

Manufacturer:Product:Astro Optics Corp.Model TPMAvery DennisonModel 66

Bunzl Extrusion (Davidson) RPM Durable Pavement Marker

Bunzl Extrusion (Davidson) TOM Road Marker

SECTION 632 - RETROREFLECTIVE PAVEMENT MARKINGS

A. ITEM 632.1 - PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE)

Manufacturer: Product: 3M Series 620

Advance Traffic Markings ATM 200 Removable Construction Grade Brite-Line Technologies, Inc Brite-Line Series 100 Removable Tape

Lafarge Road Marking Prismoline TRT Series T-2512

Trelleborg Industries Trelleborg Removable Road Tape RY-140 (Yellow)
Trelleborg Industries Trelleborg Removble Road Tape RW-140(White)

B. ITEM 632.5 - PREFORMED RETROREFLECTIVE TAPE, TYPE V

Note: This category is for longitudinal lines, legends, and symbols, except for the word "ONLY" and arrows.

Manufacturer: Product: 3M Series 380-I

Brite-Line Technologies, Inc. Brite-Line Series 1000 Durable Tape

C. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, TYPE VI

Note: This category is for transverse markings, and the word "ONLY" and arrows.

Manufacturer: Product: 3M Series 380-I

Brite-Line Technologies,Inc. Brite-Line Series 1000 Durable Tape

D. ITEMS 632.81 & 632.82 - RAISED PAVEMENT MARKERS (SINGLE, DOUBLE FACE)

Manufacturer:Product:Astro Optics Corp.Model TPMAvery DennisonModel 66

Bunzl Extrusion (Davidson) RPM Durable Pavement Marker

E. Not currently used.

F. ITEM 632.9 - PREFORMED BLACKOUT TAPE, TYPE I (REMOVABLE)

Note: This category is for temporary obliteration of pavement markings.

Manufacturer: Product:

Advance Traffic Markings ATM 280 Hide A Line
Brite-Line Technologies, Inc. Deltaline BTR

Swarco Industries, Inc.

Director 2 Blackout Removable Tape
Trelleborg Industries

Trelleborg Removable Tape RB-140

SECTION 645 - EROSION CONTROL

A. ITEM 645.1 - MULCH

Manufacturer: Product:

Outdoor World of New England Kid Kushion Playground Mulch

Contact Roadside Development Section, Bureau of Highway Design, 271-6476

B. ITEM 645.21 - SLOPE STABILIZATION (2:1 OR FLATTER)

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Manufacturer: Product:

American Excelsior Company AEC Premier Straw DN (formerly SS-G2) (2:1 or less)

American Excelsior Company

AEC Premier Straw Double Net QuickMow (formerly SS-W2) (2:1 or less)

American Excelsior Company

AEC Premier Straw Single Net Quick Mow (formerly SS-W1) (3:1 or less)

American Excelsior Company AEC Premier Straw SN (formerly SS-G1)(3:1 or less)

Conwed Fibers Futerra
East Coast Erosion Blankets, LLC ECS-1
East Coast Erosion Blankets, LLC ECS-2

Greenfix America WS05 (3:1 or less)
Greenfix America WS052 (3:1 or less)
Hydrograss Corp.Com Straw Erosion Blanket II BN

North American Green DS150

North American Green DS75 (3:1 or less)

North American Green S150
North American Green S150BN
North American Green S75 (3:1 or less)
North American Green S75BN (3:1 or less)
North American Green SC150BN
PPS Packaging Co. (Western Excelsior) Excel Regular

Rhino Seed & Landscape Supply Rhino Erosion King Straw Blanket (Double net high velocity straw blanket)

SI Geosolutions (formerly Bonterra America) Landlok S1 (3:1 or less) (6 fps) SI Geosolutions (formerly Bonterra America) Landlok S2 (3:1 or less) (10 fps)

Verdyol Plant Reasearch, LTD
Western Excelsior Corporation
Western Excelsior Corporation
XCEL CS-3 All Natural
XCEL SR-1 (3:1or less)

Western Excelsior Corporation XCEL SR-1 All Natural (3:1 or less)

Western Excelsior Corporation XCEL SS-2
Western Excelsior Corporation XCEL SS-2 All Natural
Western Excelsior Corporation XCEL SS-2 w/rapid go netting

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

C. ITEM 645.22 - SLOPE STABILIZATION (STEEPER THAN 2:1)

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476) Note: Products in this category are also acceptable for use under Item 645.21

Manufacturer:Product:American Excelsior CompanyCurlex IAmerican Excelsior CompanyCurlex IIAmerican Excelsior CompanyCurlex Quickgrass

East Coast Erosion Blankets, LLC ECSC-2 Greenfix America C4 Greenfix America C7 CF072B Greenfix America Greenfix America CF072RR CFS072B Greenfix America CFS072R Greenfix America Greenfix America WS072 WS072B Greenfix America

Hydrogras Corp. Com Straw Erosion Blanket II BN

North American Green C125 North American Green C125BN North American Green SC150 SC150BN North American Green PPS Packaging Co. (Western Excelsior) **Excel Super Duty** PPS Packaging Co. (Western Excelsior) Excel Superior SI Geosolutions (formerly Bonterra America) Landlok CS2 Contech CFB2 Verdyol Plant Reasearch, LTD Verdyol Plant Reasearch, LTD Contech CFB2BD Verdyol Plant Reasearch, LTD Contech SCFB2 Verdyol Plant Reasearch, LTD Contech SCFB2B XCEL CC-4 Western Excelsior Corporation

Western Excelsior Corporation XCEL CC-4 All Natural Western Excelsior Corporation XCEL CS-3
Western Excelsior Corporation XCEL CS-3 All Natural

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

D. ITEM 645.23 - CHANNEL STABILIZATION (LOW VELOCITY)

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Manufacturer: Product:

American Excelsior Company Curlex I (5 fps max.) American Excelsior Company Curlex II (7 fps max.)

American Excelsior Company Curlex Quickgrass (5 fps max.)

Greenfix America WS05 (6 fps max.)
Greenfix America WS052 (8 fps max.)
Greenfix America WS072 (9 fps max.)
Greenfix America WS072B (9 fps max.)
Hydrograss Corp. Com Straw Erosion Blanket II BN

Indian Valley Industries, Inc. Sedimat

North American Green SC150 (8 fps max.) SC150BN (8 fps max.) North American Green PPS Packaging Co. (Western Excelsior) Excel Regular (5 fps max.) Excel Superior (7 fps max.) PPS Packaging Co. (Western Excelsior) Synthetic Industries Landlok 407 GR (5 fps max.) Verdyol Plant Reasearch, LTD Contech CFB2(12fps) Verdyol Plant Reasearch, LTD Contech SCFB2(10 fps) Verdyol Plant Reasearch, LTD Contech SCFB2B (10 fps)

Western Excelsior Corporation XCEL CS-3

Western Excelsior Corporation XCEL CS-3 All Natural

Western Excelsior Corporation XCEL R-1 Green Dyed (5fps max)

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

E. ITEM 645.24 - CHANNEL STABILIZATION (HIGH VELOCITY)

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476) Note: Products in this category are also acceptable for use under Item 645.23

Manufacturer: Product:

American Excelsior Company Curlex III (HV) (10 fps max)

Greenfix America C4 (10 fps max.) Greenfix America C7 (10 fps max.) Greenfix America CF072B (14 fps max.) Greenfix America CFS072B (10 fps max.) Greenfix America CFS072R (10 fps max.) Greenfix America CFS072RR (14 fps max.) C125 (10 fps max.) North American Green North American Green C125BN (10 fps max.) PPS Packaging Co. (Western Excelsior) Excel Superduty (12 fps max.) SI Geosolutions (formerly Bonterra America) Landlok C2 (15 fps max.)

Verdyol Plant Reasearch, LTD

Contech CF9

Verdyol Plant Reasearch, LTD

Contech CFB2 (12 fps)

Western Excelsior Corporation XCEL CC-4

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

F. ITEM 645.25 - PERMANENT STABILIZATION

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Manufacturer: Product:

Colbond Geosynthetics Enkamat 7010 (Slopes & Channels)
Colbond Geosynthetics Enkamat 7020 (Slopes & Channels)

North American Green C350 (10-18 fps) North American Green P300 (9-14 fps)

PPS Packaging Co. (Western Excelsior) Excel Permamat-100 (Slopes & 7-12 fps Channels)
PPS Packaging Co. (Western Excelsior) Excel Permamat-200F (Slopes & 7-12 fps Channels)

Synthetic Industries Contech TRM C-35
Synthetic Industries Contech TRM C-45
Synthetic Industries Contech TRM C-50
Synthetic Industries Contech TRM C-60
Synthetic Industries Contech TRM C-61

Synthetic Industries LandLok TRM1060 (8-20 fps) Synthetic Industries LandLok TRM450 (8-18 fps)

Synthetic Industries Pyramat
Webtec, Inc. Terra Jute (Slopes)

Webtec, Inc. Terra Jute (Slope Western Excelsior Corporation XCEL PP-5-10 Western Excelsior Corporation XCEL PP-5-12

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

G. ITEM 645.531 - SILT FENCE

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476) Note: In addition to those products meeting NHDOT specifications under this category, the following products are qualified for use:

Manufacturer:Product:Environmental Research Corp.BioFence

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

H. TACKIFIERS

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Manufacturer: **Product:** Acadia Eco-Products Earth Bond CHEMSTAR StarTak 100 **CHEMSTAR** StarTak 600 Eastern Products, Inc. Ecotak OP Eastern Products, Inc. Ecotak Sat EC3000 Erosion Control Technologies Reinco Inc. Reinco RMBplus

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.